

(No Model.)

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E. G. MILES.
TOE WEIGHT.

No. 517,583.

Patented Apr. 3, 1894.

Fig. 1

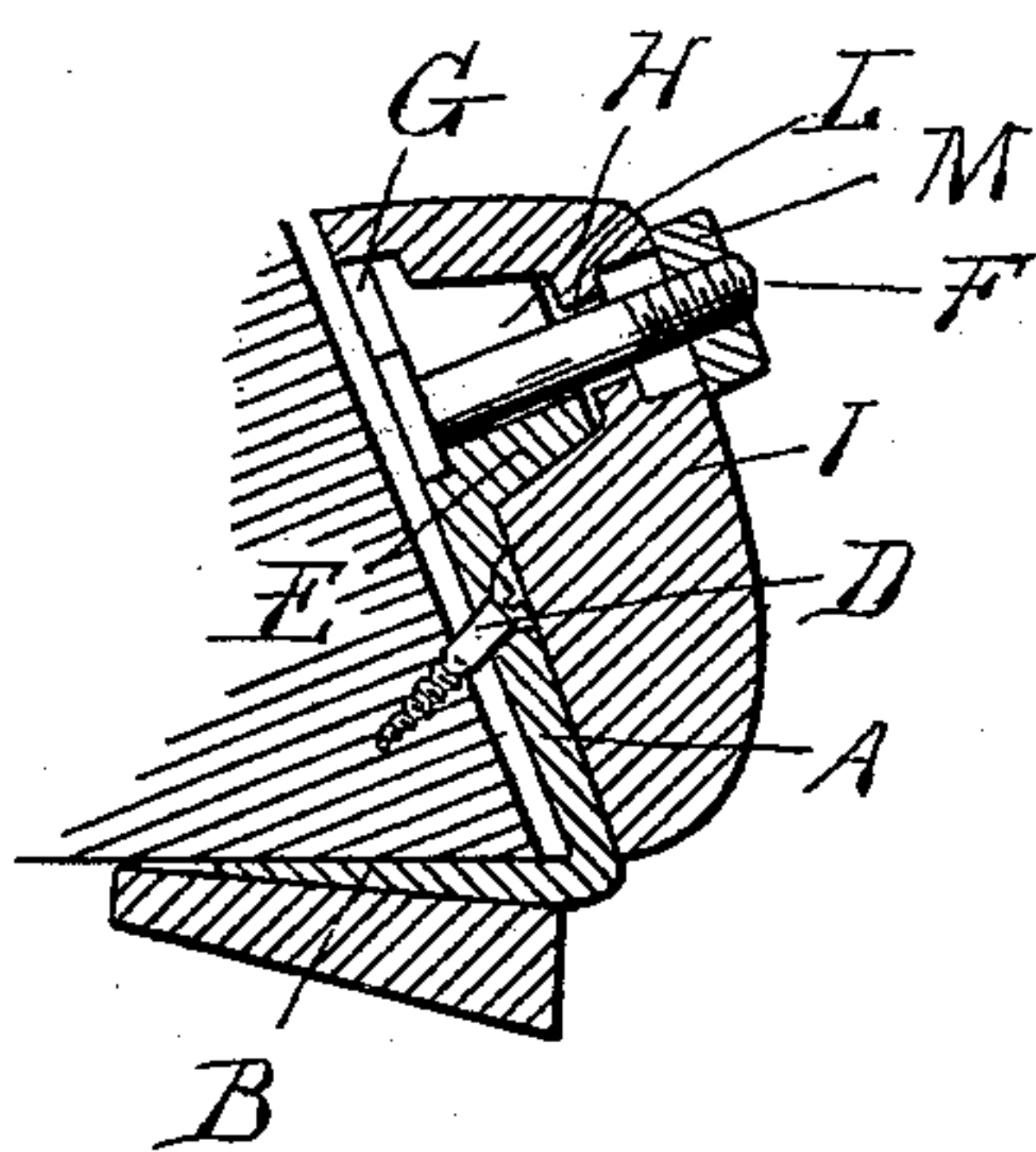
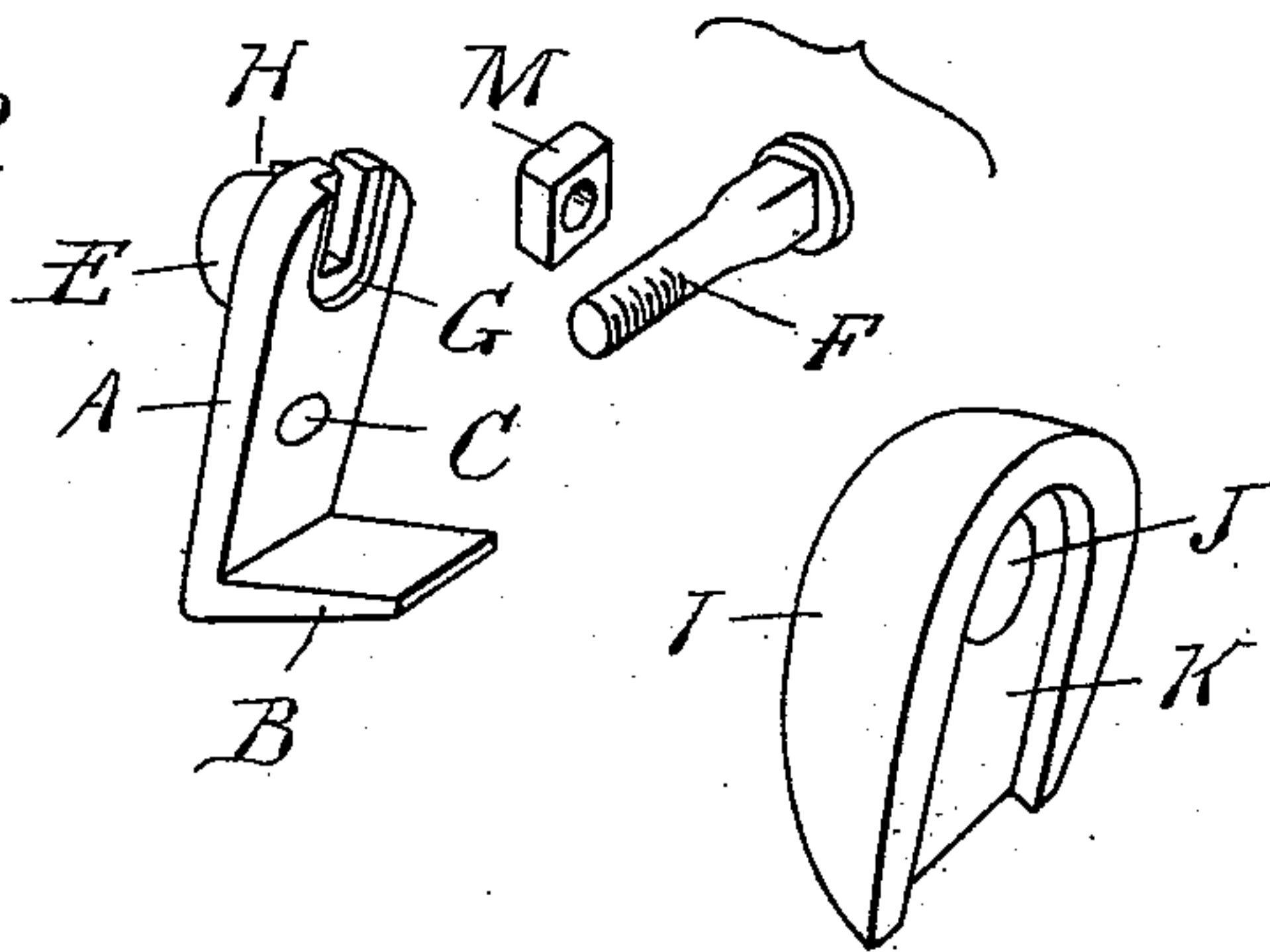


Fig. 2



Witnesses:

P. M. Hulbert
[Signature]

Inventor:

Edwin C. Miles
By *[Signature]* Wm. S. Sprague & Son
Attys.

UNITED STATES PATENT OFFICE.

EDWIN G. MILES, OF DETROIT, MICHIGAN.

TOE-WEIGHT.

SPECIFICATION forming part of Letters Patent No. 517,583, dated April 3, 1894.

Application filed July 17, 1893. Serial No. 480,774. (No model.)

To all whom it may concern:

Be it known that I, EDWIN G. MILES, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Toe-Weights, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention consists in the peculiar construction of the weight designed to be detachably secured upon the horse's hoof, and particularly in the construction of the devices for attaching and detaching the weight.

The invention further consists in the peculiar construction, arrangement and combination of the various parts all as more fully hereinafter described.

In the drawings, Figure 1 is a vertical, central, longitudinal section through a toe-weight embodying my invention showing it applied to a horse's hoof. Fig. 2 is a detached perspective view of the parts of the weight.

In applying the weight to the hoof I first secure a plate or strap A thereto, which may be left permanently in position. This strap I preferably construct with a tang B extending at an acute angle rearwardly therefrom, and adapted to be engaged between the shoe and the hoof, as shown in Fig. 1. The plate is also provided with an aperture C, which extends outwardly through the strap at an acute angle thereto, so that when secured in position the horizontal strain will be resisted by the screw D, which is passed through the aperture C while the vertical strain will be resisted by the tang. This plate I preferably make of aluminum, or of aluminum and compound so as to make it so light that when the weight proper is detached the plate itself will have no effect upon the horse's gait. The lug and upper end of the plate are bifurcated as at H, the inner end of the bifurcation being enlarged forming a recess G in the inner face of the plate. This bifurcation is adapted to receive the bolt F, the enlarged head of which engages in the recess G, so that the bolt may be withdrawn by sliding it upward through the slot.

I is the toe-weight proper, which at its un-

der side is provided with recesses J and K adapted to engage over the lug D and the plate respectively so that when the two are together, the under face which rests upon the hoof of the horse will be perfectly flat. The weight is provided with a suitable aperture L through which the bolt passes and the nut M when screwed down clamps the parts tightly in position and prevents any accidental disengagement of the weight from the plate. To disengage the parts, the nut is removed and the weight is lifted off, when the bolt may be lifted vertically without in any way removing the plate or strap, leaving a very light piece upon the horse's hoof.

What I claim as my invention is—

1. A toe-weight comprising a securing strap, a flat tang at the lower end of the strap extending rearwardly at an acute angle therefrom, a screw extending downwardly through the strap at an acute angle, and a weight secured on the strap and over the head of the screw substantially as and for the purpose described.

2. A toe-weight comprising a bifurcated securing strap, a flat tang at the lower end of the strap extending rearwardly therefrom at an acute angle, a securing screw passing through the strap, a bifurcated lug on the upper face of the strap, a weight having a recess to engage upon the lug, and a securing bolt passing through the bifurcation of the lug and weight, substantially as described.

3. A toe-weight comprising a securing strap, means for securing the strap to the hoof of a horse, a lug upon the upper face of the strap, a weight recessed to engage upon the lug, and a bolt passing through the lug and weight, the lug and strap having complementary bifurcations for the bolt and its head whereby it may be disengaged from the weight, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

EDWIN G. MILES.

Witnesses:

M. B. O'DOHERTY,
JAMES WHITTEMORE.